training code: AB-400 / ENG DL 3d / EN

Extend Microsoft Power Platform Solutions with code and AI

The training covers advanced extensibility and customization techniques for Microsoft Power Platform, focusing on extending solutions with custom code and integrating AI capabilities to build modern, intelligent business applications. Participants will learn to implement business logic with Dataverse plug-ins, build Power Apps code apps, create reusable PCF controls, implement resilient Power Automate flows, integrate custom agents, and connect external services through custom connectors. The course also provides excellent preparation for the AB-400 certification exam, which confirms skills in extending Microsoft Power Platform solutions with code and AI. This training is designed for professional developers who want to master advanced Power Platform development patterns, including AI-powered application development, secure extensibility, and governed application lifecycle management. Through a practical approach combining lectures, demonstrations, and hands-on labs, participants will gain the knowledge and skills necessary to design, develop, test, and troubleshoot solution components using Microsoft Power Platform extension points and generative AI.

Training recipients

- Microsoft Power Platform developers who extend and customize business solutions with code and integrate AI capabilities into applications, focusing on building custom application experiences and agent integrations.
- Pro-developers building modern business applications using advanced extensibility patterns, Power Apps code apps, and integration of Microsoft Foundry and Copilot Studio agents with Power Platform

solutions.

- IT professionals who design, develop, test, and troubleshoot solution components using Microsoft Power Platform extension points, including custom user experiences, business logic, system integrations, and agentic AI in solution logic.

Benefits

- Advanced Dataverse extensibility mastery – You'll learn to implement secure, supportable business logic with plug-ins, perform reliable API operations, and integrate Azure Functions for scalable compute workloads in production environments.
- Professional Power Apps development skills – You'll gain hands-on experience building connected Power Apps code apps, applying supported client-side scripting, creating reusable PCF controls, and deploying monitored code applications.
- AI and agent integration expertise – You'll master implementing resilient Power Automate logic, consuming governed Dataverse MCP servers, and integrating custom agents with Microsoft Power Platform to build intelligent solutions.
- Enterprise integration capabilities – You'll learn to publish Dataverse events, synchronize external data reliably, and connect external APIs through custom connectors to create fully integrated business solutions.
- Production-ready solution delivery – You'll develop skills to evaluate secure implementation options, design extensible solution components, and deliver solutions through governed application lifecycle management practices.
- Certification preparation advantage – You'll gain comprehensive preparation for the AB-400 exam across all study areas: building Power Platform solutions, extending user experience, extending the platform, and developing integrations.
- Real-world development patterns – You'll apply core Power Platform development skills alongside AI-powered application development patterns to create connected, intelligent solutions that address modern business requirements.

Training program

1. Extend Dataverse with code and Azure compute
   - Get started with Microsoft Power Platform development
   - Implement business logic with Microsoft Dataverse plug-ins
   - Harden Dataverse extensions for production workloads
   - Perform reliable operations with Microsoft Dataverse APIs
   - Diagnose advanced Microsoft Dataverse API failures

- Process Power Platform workloads with Azure Functions

2. Build professional Power Apps experiences
   - Build Dataverse experiences with Power Apps code apps
   - Connect Power Apps code apps to platform services
   - Deploy and operate secure Power Apps code apps
   - Apply client-side logic in model-driven Power Apps
   - Build reusable controls with Power Apps component framework
3. Build automation and agent integrations
   - Implement resilient Power Automate cloud-flow logic
   - Consume Dataverse MCP servers from MCP clients
   - Integrate custom agents with Microsoft Power Platform
4. Integrate Dataverse with services and external data
   - Publish Microsoft Dataverse events to external services
   - Synchronize external data reliably with Microsoft Dataverse
   - Connect external APIs with Power Platform custom connectors
5. Design and deliver secure Power Platform solutions
   - Evaluate Microsoft Power Platform solution implementation options
   - Design extensible Microsoft Power Platform solution components
   - Deliver Power Platform solutions through governed ALM



Expected preparation of the participant

- Working experience with Microsoft Power Platform services and Dataverse
- Proficiency in JavaScript, TypeScript, JSON, and Power Fx programming languages
- Knowledge of C#, Python, HTML, and YAML
- Experience with RESTful web APIs
- Familiarity with Microsoft Azure platform and services
- Understanding of Microsoft Foundry
- Knowledge of Microsoft Copilot Studio

To increase the comfort of work and training’s effectiveness we suggest using an additional monitor. The lack of additional monitor does not exclude participation in the training, however, it significantly influences the comfort of work during classes.

You can find information and requirements of participation in Distance Learning trainings at: https://www.altkomakademia.pl/en/how-it-works/about-courses/



Training Includes

- manual in electronic form available on the platform: https://learn.microsoft.com/pl-pl/training/
- access to Altkom Akademia's student portal

Duration

3 days / 21 hours

Language

- Training: English
- Materials: English